PATENT COOPERATION TREATY

1526

From the INTERNATIONAL PRELIMINARY EXA	MINING AUTHORITY			/
To: GAL EHRLICH C/O ANTHONY CASTORINA 2001 JEFFERSON DAVIS HIGHWAY			PCT	
SUITE 207 ARLINGTON, VA 22202			WRITTEN OPINION	
	·		(PCT Rule 66)	
	F	Date of Mailing	15 JUN 2006 (1)	
		(day/month/year)	10 0011 2000	
Applicant's or agent's file reference 02/23560			within 1 months/days from the above date of mailing	
International application No.	International filing date (Priority date (day/month/year)	
PCT/IL03/00079	30 January 2003 (30.01.2	.003)	31 January 2002 (31.01.2002)	
International Patent Classification (IPC)				
IPC: Please See Continuation Sheet USPC: 514/2,16;530/300,327,328,329		·		
Applicant RAMOT AT TEL AVIV UNIVERSITY	LTD.			
		•		
1. This written opinion is the fir	st_(first, etc,) drawn by this	s International Preli	ninary Examining Authority.	
2. This opinion contains indicati	ions relating to the followin	g items:		
I Basis of the opini				
II Priority				
		novelty, inventive s	ep and industrial applicability	
IV Lack of unity of it				
	ant under Rule 66.2 (a)(ii) wanations supporting such st		, inventive step or industrial applicability;	
VI Certain document	s cited			
VII Certain defects in	the international application	n		
VIII Certain observation	ons on the international appl	lication		
3. The applicant is hereby invite	ed to reply to this opinion.			
	imit indicated above. The caracter an extension. See rule		e the expiration of that time limit, request thi	5
	g a written reply, accompan and the language of the amo		ate, by amendments, according to Rule 66.3. 66.8 and 66.9.	
For the exami	onal opportunity to submit a iner's obligation to consider al communication with the	r amendments and/o	r arguments, see Rule 66.4 bis.	
If no reply is filed, the interr	national preliminary examin	nation report will be	established on the basis of this opinion.	
The final date by which the in examination report must be e		e 69.2 is: <u>31 May 20</u>	004 (31,05,2004)	
Name and mailing address of the IPEA/US		Authorized office		
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents		Authorized office	Bell-Harrisgn	
P.O. Box 1450		Christian L. Fron	da – U	
Alexandria, Virginia 22313-1450		Telephone No. (5	71) 272-1600	

Facsimile No. (571) 273-3201
Form PCT/IPEA/408 (cover sheet)(July 1998)

WD.	ITTEN	OP	INI	ON

International application	No.	
PCT/IL03/00079		

I.	Basis of the opinion	
1.	With regard to the elements of the international application:*	
	the international application as originally filed the description: pages 1-73, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of the claims: pages 74-91, as originally filed pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand	
	pages NONE , filed with the letter of the drawings: pages 1-43 , as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of	•
•	the sequence listing part of the description: pages 1-29, as originally filed pages NONE, filed with the demand pages NONE, filed with the letter of With regard to the language, all the elements marked above were available or furnished to the sequence of the language of the sequence of the language of the language.	his Authority in the
L.	the language of a translation of the international application was filed, unless otherwise indicated under to the language of a translation furnished to this Authority in the following language the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary of 55.2 and/or 55.3).	his itemwhich is: Rule23.1(b)).
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international applinion was drawn on the basis of the sequence listing: contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go bey international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to that been furnished.	ond the disclosure in the
	The amendments have resulted in the cancellation of: the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE This opinion has been drawn as if (some of) the amendments had not been made, since they hav beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). deplacement sheets which have been furnished to the receiving Office in response to an invitation under opinion as "originally filed."	

International application No.

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	n-establishment of opinion with regard to novelty, inventive step and industrial applicability
l. The be in	question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to dustrially applicable have not been examined in respect of:
П	the entire international application,
\boxtimes	claims Nos. <u>17-21, 27-69, 81-90, 101-155</u>
	because:
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify):
	•
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):
	·
_	
Ш	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
\boxtimes	no international search report has been established for said claums Nos. 17-21,27-69.81-90 and 101-155.
2. A w	ritten opinion cannot be drawn due to the failure of the nucleotide and/or amino acid sequence listing to comply with tandard provided for in Annex C of the Administrative Instructions:
	the written form has not been furnished or does not comply with the standard.
	the computer readable form has not been furnished or does not comply with the standard.

Form PCT/IPEA/408 (Box III) (July 1998)

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IV.	Lack	of unity of invention
1. I	n respo	onse to the invitation (Form PCT/IPEA/405) to restrict or pay additional fees the applicant has: restricted the claims. paid additional fees. paid additional fees under protest. neither restricted nor paid additional fees.
2.	This A chose	Authority found that the requirement of unity of invention is not complied with for the following reasons and according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:
		quently, the following parts of the international application were the subject of international preliminary ation in establishing this opinion:
		all parts. the parts relating to claims Nos. 1-16,22-26,70-80,91-100(partialy,SEQ ID NO: 4).

Form PCT/IPEA/408 (Box V) (July 1998)

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V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. STATEMENT					
Novelty (N)	Claims	Please See Continuation Sheet	YES		
	Claims	Please See Continuation Sheet	NO		
Inventive Step (IS)	Claims	Please See Continuation Sheet	YES		
		Please See Continuation Sheet	NO		
Industrial Applicability (IA)	Claims	Please See Continuation Sheet	YES		
indistrict Approximity (111)		Please See Continuation Sheet	NO		
		·			
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet					
rease see communion sheet		•			
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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

Continuation of IPC:

A01N 37/18; A61K 38/00(2006.01),38/04(2006.01) A01N 37/18(2006.01); A61K 38/00(2006.01),38/04(2006.01)

V.1. Reasoned Statements:

The opinion as to Novelty was positive (Yes)with respect to claims 3-7, 11-15, 22-26, 71, 72, 76, 77, 78, 80, 95-100
The opinion as to Novelty was negative (No) with respect to claims 1, 2, 8, 9, 10, 70, 73-75, 79, and 91-94
The opinion as to Inventive Step was positive (Yes)with respect to claims 3-7, 11-15, 22-26, 71, 72, 76, 77, 78, 80, 95-100
The opinion as to Inventive Step was negative(NO) with respect to claims 1, 2, 8, 9, 10, 70, 73-75, 79, and 91-94
The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-16, 22-26, 70-80, 91-100
The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

V. 2. Citations and Explanations:

Claims 1, 2, 8, 9, and 10 lack novelty under PCT Article 33(2) as being anticipated by the following references:

Kapurniotu et al. (Accession AAW93015) teach a peptide comprising an amino acid sequence of at least 3 amino acid residues and less than 15 amino acid residues including an amino acid sequence of SEQ ID NO: 7, where said amino acid sequence includes polar uncharged residues of serine and asparagine, two serine residues at the C-terminus, and the beta-breaker glycine residue (see alignment).

Mosselman et al. (Accession S04016) teach a peptide comprising an amino acid sequence of at least 3 amino acid residues and less than 15 amino acid residues including an amino acid sequence of SEQ ID NO: 7, where said amino acid sequence includes polar uncharged residues of serine and asparagine, two serine residues at the C-terminus, and the beta-breaker glycine residue (see alignment). Thus, the reference teachings anticipate the claims.

Claims 70, 73-75, 79, and 91-94 lack an inventive step under PCT Article 33(3) as being obvious over Kapurniotu et al. (Accession AAW93015) or Mosselman et al. (Accession S04016) in view of US Patent 6,303,567 (Findeis et al.).

US Patent 6,303,567 (Findeis et al.) teach pharmaceutical compositions for treating or preventing amyloid-associated diseases comprising compounds and a pharmaceutically acceptable carrier or diluent (see entire publication). US Patent 6,303,567 does not teach the pharmaceutical composition recited in claims 70, 73-75, 79, and 91-94.

The teachings of Kapurniotu et al. (Accession AAW93015) and Mosselman et al. (Accession S04016) have been stated above.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the pharmaceutical compositions of US Patent 6,303,567 such that the pharmaceutical composition is formulated with the peptides taught by Kapurniotu et al. (Accession AAW93015) and Mosselman et al. (Accession S04016). One of ordinary skill in the art would be motivated to do this for the purposes of having a pharmaceutical composition that can be used in treating or preventing amyloid-associated diseases.

	NION

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peptide.						
laims 1-16, 22-26, 70-80, 91-100 of atter claimed can be made or used NEW CITATION	in industry.	T Article 33(4), an	d thus has industri	al applicability bec	ause the subject	
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